

What is claimed is:

1. A wire rewinding box with a recharge unit, comprising:

a casing, having an accommodating chamber therein;

a windlass, installed in said accommodating chamber;

a coil spring, installed between the casing and the windlass;

a communication wire, winding on said windlass, one end of the communication wire being pulled out of the casing;

a recharge unit, installed inside the casing, including a gear mechanism and a generator, said gear mechanism being installed between the windlass and the generator; and

a press handle, installed at one side of the casing, said gear mechanism also installed between the press handle and the generator;

whereby, when the communication wire is pulled, the rotating force of the windlass is transmitted through the gear mechanism to the generator, causing the generator to generate power, or optionally, the press handle is pressed to transmit force through the gear mechanism to the generator, causing the generator to generate power.

2. The wire rewinding box with a recharge unit as claimed in claim 1, wherein

said the casing includes a first half casing and a second half casing that are combined as one unit, inside said accommodating chamber being a shaft, the shaft having a wire groove and casing having a wire outlet on a side thereof, said windlass having a shaft hole that is inserted by the shaft for the purpose of rotation, on two sides of the windlass being respectively a first winding rim and a second winding rim, the first winding rim having a hook groove, onto which a hook end of the coil spring is hooked, one end of the communication wire being pulled through the wire groove of the shaft, winding on the shaft

and the second winding rim, and out of the wire outlet of the casing.

3. The wire rewinding box with a recharge unit as claimed in claim 1, wherein the casing has a placement groove and a snap fastener on an outside thereof.

5 4. The wire rewinding box with a recharge unit as claimed in claim 1, wherein the recharge unit has a battery, the generator being connected by a connecting wire to the battery.

10 5. The wire rewinding box with a recharge unit as claimed in claim 1, wherein the press handle includes a press handle main unit and a storage unit, one end of the press handle main unit being joined to one side of the casing, between the press handle main unit and the casing being an elastic element, inside the press handle main unit being an accommodating space, the storage unit being accommodated in the accommodating space or extended outside, to one inside of the press handle main unit being connected an
15 arched rack, the rack being meshed with the gear mechanism.

6. The wire rewinding box with a recharge unit as claimed in claim 1, wherein the gear mechanism includes a plurality of gears, there being a first check mechanism between the windlass and the first gear, and a second check mechanism between the first gear and the second gear.

20 7. The wire rewinding box with a recharge unit as claimed in claim 6, wherein the first check mechanism consists of a plurality of claw gates on the first gear and a plurality of one-way stop blocks that are fixed on the windlass, the one-way stop block having a push face and an inclined slide face, the second check mechanism consists of a plurality of claw gates on the second gear
25 and a plurality of one-way stop blocks on the first gear, said one-way stop block having a push face and an inclined slide face.

8. The wire rewinding box with a recharge unit as claimed in claim 1, wherein

a specified number of gears in the gear mechanism are designed to be mobile, with two ends of a turning shaft of the gear fitted in a chute on the casing, the turning shaft being capable of sliding inside the chute, so the gear is optionally meshed with or disengaged from another gear.

5